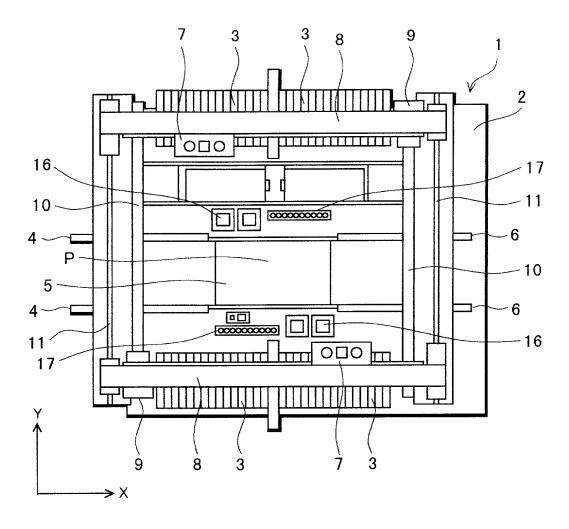
Inventor: Kazuyoshi OYAMA
Application No.: New U.S. Application
Docket No.: 492322002000

Sheet 1 of 8

1/8

FIG.1



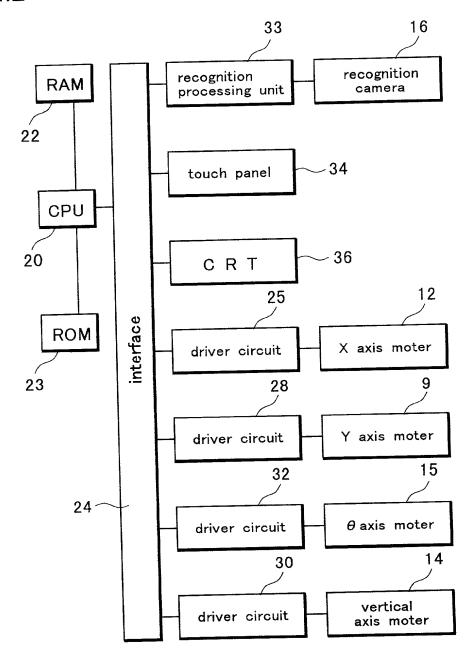
Inventor: Kazuyoshi OYAMA Application No.: New U.S. Application

Docket No.: 492322002000

Sheet 2 of 8

2/8

FIG.2



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Inventor: Kazuyoshi OYAMA Application No.: New U.S. Application Docket No.: 492322002000

Sheet 3 of 8

3/8

FIG.3

X(mm)	Y(mm)	θ (an	gle)	FDR	С
+ 0.00	+ 0.00	+ 0°	00′	000	_
10.00	120.00	0°	00′	101	
15.00	130.00	90°	00′	101	
20.00	150.00	0°	00′	103	_
60.00	50.00	180°	00′	103	
110.00	80.00	270°	00′	105	
210.00	220.00	0°	00′	105	_
310.00	120.00	180°	00′	107	_
310.00	20.00	90°	00′	110	
180.00	50.00	0°	00′	110	_
160.00	80.00	270°	00′	110	
290.00	220.00	0°	00′	110	
0.00	0.00	0°	00′	000	E
	+ 0.00 10.00 15.00 20.00 60.00 110.00 210.00 310.00 180.00 160.00 290.00	+ 0.00 + 0.00 10.00 120.00 15.00 130.00 20.00 150.00 60.00 50.00 110.00 80.00 210.00 220.00 310.00 120.00 180.00 50.00 160.00 80.00 290.00 220.00	+ 0.00 + 0.00 + 0° 10.00 120.00 0° 15.00 130.00 90° 20.00 150.00 0° 60.00 50.00 180° 110.00 80.00 270° 210.00 220.00 0° 310.00 120.00 180° 310.00 20.00 90° 180.00 50.00 0° 160.00 80.00 270° 290.00 220.00 0°	+ 0.00 + 0.00 + 0° 00′ 10.00 120.00 0° 00′ 15.00 130.00 90° 00′ 20.00 150.00 0° 00′ 60.00 50.00 180° 00′ 110.00 80.00 270° 00′ 210.00 220.00 0° 00′ 310.00 120.00 180° 00′ 310.00 20.00 90° 00′ 180.00 50.00 0° 00′ 160.00 80.00 270° 00′ 290.00 220.00 0° 00′	+ 0.00 + 0.00 + 0° 00′ 000 10.00 120.00 0° 00′ 101 15.00 130.00 90° 00′ 101 20.00 150.00 0° 00′ 103 60.00 50.00 180° 00′ 103 110.00 80.00 270° 00′ 105 210.00 220.00 0° 00′ 105 310.00 120.00 180° 00′ 107 310.00 20.00 90° 00′ 110 180.00 50.00 0° 00′ 110 160.00 80.00 270° 00′ 110 290.00 220.00 0° 00′ 110

FIG.4

Hall the lines well that with

FDR NO	4	component ID	•	C	comment
101	C:	3216		_	
103	R	1005		_	
105	S	OP14		-	
107	Q	FP100-0001-0500		-	
110	\ \	QFP48		E	

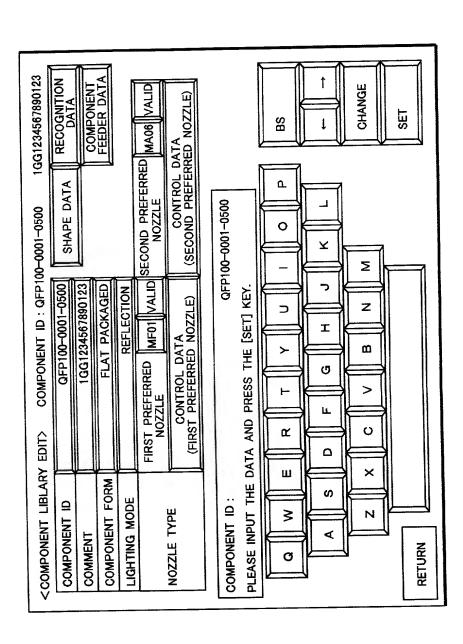
Inventor: Kazuyoshi OYAMA

Application No.: New U.S. Application

Docket No.: 492322002000

Sheet 4 of 8

4/8



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Title: ELECTRIC COMPONENT MOUNTING APPARATUS Inventor: Kazuyoshi OYAMA
Application No.: New U.S. Application
Docket No.: 492322002000

Sheet 5 of 8

5/8

DICK-IIP RETENTION TIME	0.00 sec	0.00 sec SPEED DATA BEAM(X/Y)	BEAM(X/Y)	FULL SPEED
DI ACEMENT RETENTION TIME	0.00 sec		PICK-UP DESCENT	FULL SPEED
			PICK-UP ASCENT	FULL SPEED
			PLACEMENT DESCENT	FULL SPEED
			PLACEMENT ASCENT	FULL SPEED
			NOZZLE ROTATION	FULL SPEED
			RECOGNITION TIME	0.10 sec

		1		
COMPONENT BOSITION	×	+ 0.0 mm	+ 0.0 mm PICK-UP LEVEL	+ 0.10 mm
CORRECTION	>	+ 0.0 mm	+ 0.0 mm PLACEMENT LEVEL	+ 0.30 mm
NOITA OO LOLL YORG	×	+ 0.0 mm	+ 0.0 mm FOCUS ADJUSTMENT	+ 0.00 mm
ADJUSTMENT	>	+ 0.0 mm	+ 0.0 mm ERROR PROCESS DATA 1	2
ALITOMATIC FOR AXIS	×	NO	ON ERROR PROCESS DATA 2	2
ADJUSTMENT	≻	N O		

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Title: ELECTRIC COMPONENT MOUNTING APPARATUS Inventor: Kazuyoshi OYAMA Application No.: New U.S. Application Docket No.: 492322002000

6/8

Sheet 6 of 8

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PICK-UP RE		0.10 sec	SPEED DATA	BEAM(X/Y)	50%DECELERATION
PI ACEMENT RETENTI		0.00 sec		PICK-UP DESCENT	50%DECELERATION
				PICK-UP ASCENT	50%DECELERATION
				PLACEMENT DESCENT	50%DECELERATION
				PLACEMENT ASCENT	50%DECELERATION
				NOZZLE ROTATION	50%DECELERATION
				RECOGNITION TIME	0.10 sec
COMPONENT POSITION	×	+ 0.0 mm	PICK-UP LEVEL	•	+ 0.10 mm
7	>	+ 0.0 mm	+ 0.0 mm PLACEMENT LEVEL	SVEL	+ 0.30 mm
PICK-LIP LOCATION	×	+ 0.0 mm	FOCUS ADJUSTMENT	TMENT	+ 0.00 mm
ADJUSTMENT	>	+ 0.0 mm	ERROR PROCESS DATA 1	SS DATA 1	2
AUTOMATIC FOR AXIS	×	NO	ERROR PROCESS DATA 2	SS DATA 2	2
ADJUSTMENT	>	NO			

Inventor: Kazuyoshi OYAMA

Application No.: New U.S. Application

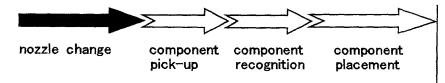
Docket No.: 492322002000

Sheet 7 of 8

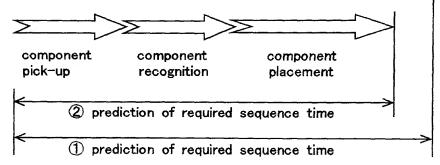
7/8

FIG.8

① When it was changed for the first preferred nozzle.



2 When operation was continued with the second preferred nozzle.

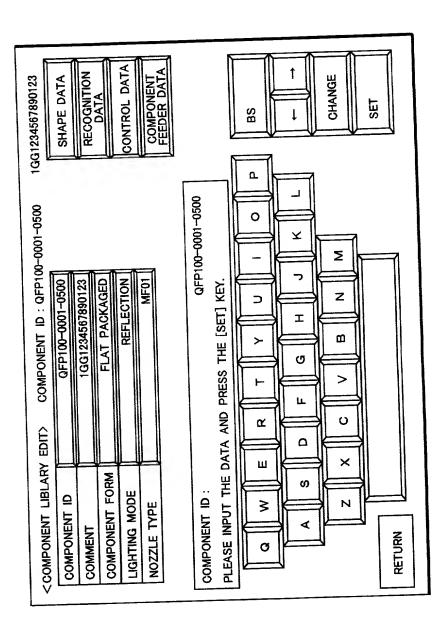


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Docket No.: 492322002000

Sheet 8 of 8

8/8



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